

### **AMENDMENTS TO THE CLAIMS**

Applicant submits below a complete listing of the current claims, including marked-up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing. This listing of claims replaces all prior versions, and listings, of claims in the application:

#### **Listing of the Claims**

1. (Previously presented) A system for discovering and connecting to a remote device by a local device, the system comprising tangible computer-readable media having:
  - an inquiry scan cache that is refreshed by a periodic inquiry scan;
  - a page scan cache that is refreshed by way of an attempt to connect to at least one remote device; and
  - a list of visible remote devices comprising entries in the inquiry scan cache, concatenated with each entry in the page scan cache that the local device successfully contacts by way of a page scan.
2. (Previously presented) The system of claim 1 wherein the remote device provides a Network Access Point (NAP) service.
3. (Previously presented) The system of claim 1 wherein the remote device provides a Group Ad-hoc Network (GN) service.
4. (Previously presented) The system of claim 1, further comprising an automatic configuration service component that polls for the list of visible remote devices and the page scan is performed in response to the configuration service polling for the list.
5. (Original) The system of claim 1 wherein the page scan cache holds a finite number of entries and is associated with an expiration policy.

6. (Previously presented) The system of claim 1 wherein the inquiry scan cache is additionally updated by way of an attempt by a remote Bluetooth device to connect to the local device.

7. (Previously presented) A method for discovering and connecting to a remote device by a local device based on a list of visible remote devices, the method comprising:

prior to receipt of a request for the list of visible remote devices:

updating an inquiry scan cache by way of a periodic inquiry scan;

updating a page scan cache with a corresponding entry in response to an attempt to connect to a remote device; and

in response to a request for the list, forming the list of visible remote devices by combining at least a portion of the page scan cache with the inquiry scan cache.

8. (Previously presented) The method of claim 7 wherein forming the list of visible remote devices further comprises:

for each entry in the page scan cache, performing a page scan, and, if the page scan was successful, adding the entry to the list of visible remote devices.

9. (Original) The method of claim 7 wherein the page scan cache holds a finite number of entries, the method further comprising, for each entry added to the page scan cache:

setting an expiration time for the entry;

if the periodic inquiry scan does not reveal the entry, reducing the expiration time; and

if the expiration time has occurred, removing the entry from the page scan cache.

10. (Previously presented) The method of claim 7, further comprising:

if a remote device attempts to connect to the local device, adding an entry for the remote device to the inquiry scan cache.

11. (Previously presented) The method of claim 7 wherein the remote device provides a Bluetooth NAP service.

12. (Previously presented) The method of claim 7 wherein the remote device provides a Bluetooth GN service.

13. (Currently Amended) The method of claim 7 wherein forming a list of visible remote devices is in response to polling by an automatic configuration service, and the method further comprises:

comparing, within the automatic configuration service, the list of visible remote devices to a list of preferred network devices to identify a preferred network device that is visible.

14. (Previously presented) A computer-readable medium storing instructions implementing a method for discovering and connecting to a remote Bluetooth device by a local Bluetooth device, the method comprising:

updating an inquiry scan cache by way of a periodic inquiry scan;

in response to an attempt is made to connect to the remote Bluetooth device, updating a page scan cache with a corresponding entry; and

forming a list of visible remote Bluetooth devices comprising a combination of entries from the inquiry scan cache and the page scan cache.

15. (Original) The computer-readable medium of claim 14 wherein forming the list of visible remote Bluetooth devices further comprises:

for each entry in the page scan cache, performing a page scan, and, if the page scan was successful, adding the entry to the list of visible remote Bluetooth devices; and

concatenating entries in the inquiry scan cache to the list of visible remote Bluetooth devices.

16. (Original) The computer-readable medium of claim 14, further comprising, for each entry added to the page scan cache:

setting an expiration time for the entry;

if the periodic inquiry scan does not reveal the entry, reducing the expiration time; and

if the expiration time has occurred, removing the entry from the page scan cache.

17. (Original) The computer-readable medium of claim 14, further comprising:  
if a remote Bluetooth device attempts to connect to the local Bluetooth device, adding an entry for the remote Bluetooth device to the inquiry scan cache.

18. (Previously presented) Computer-readable media storing one or more modules implementing a system for execution on a local Bluetooth device for discovering and connecting to a remote Bluetooth device, comprising:

an inquiry scan cache that is refreshed by an attempt to connect to the local Bluetooth device by the remote Bluetooth device;

a page scan cache that is refreshed by way of an attempt to connect to the remote Bluetooth device; and

a list of visible remote Bluetooth devices comprising entries in the inquiry scan cache, concatenated with each entry in the page scan cache that the local Bluetooth device successfully contacts by way of a page scan.

19. (Previously presented) The computer-readable media of claim 18, wherein the local Bluetooth device comprises an operating system adapted to execute software components in either a user-mode or a kernel-mode, and the computer-readable medium further comprises a user-mode Bluetooth PAN service component.

20. (Previously presented) The computer-readable media of claim 19, wherein the local Bluetooth device comprises an operating system adapted to execute software components in either a user-mode or a kernel-mode, and the computer-readable medium further comprises a kernel-mode Bluetooth PAN driver component.

21. (Original) The computer-readable media of claim 18, further comprising an automatic configuration service component that polls for the list of visible remote Bluetooth devices.